• Model: V630D6

Powered by VOLVO





Generator Specification

Service	PRP(1)	ESP ₍₂₎
Power (kVA)	570	630
Power (kW)	456	504
Rated speed (r.p.m)	18	00
Standard voltage (V)	400/	230V
Rated at power factor(cos phi)	0.	8





AGG Power gensets are compliant with ISO 9001 and CE standard, which include the following directives:

- 2006/42/EC Machinery safety.
- 2006/95/EC Low voltage
- EN 60204-1: 2006+A1: 2009, EN ISO 12100: 2010, EN ISO 13849-1: 2008, EN 12601 : 2010

(1) PRP (Prime Power):

According to ISO8528-1, prime power is the maximum power available during a variable power sequence, which may be run for an unlimited number of hours per year, between stated maintenance intervals. The permissible average power output during at 24 hours period shall not exceed 80% of the prime power. 10% overload available for governing purposes only.

(2) ESP (Standby Power):

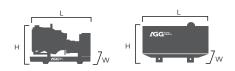
According to ISO 8528-1, It is defined as the maximum power available, under the agreed operating conditions, for which the generating set is capable of delivering for up to 500 hours of operation per year (of which no more than 300 hours for continuative use) with the maintenance intervals and procedures being carried out as prescribed by the manufacturers. No overload capability is available.

Powers	ES		PR		Standby
Voltage (V)	KVA	KW	KVA	KW	Amps
415/240	630	504	570	456	876.4
400/230	630	504	570	456	909.3
380/220	630	504	570	456	957.2

Performance Data			
Model		V630D6	
En	igine brand	Volvo	
En	gine model	TAD1641GE	
Spee	d control type	ECM	
Phase		3	
Control system		Digital	
Starter motor voltage		24V	
Frequency		60HZ	
Engin	e speed (RPM)	1800	
	100% standby power	210	
Fuel Consumption (g/kwh)	100% prime power	206	
	75% prime power	202	
	50% prime power	204	

Standard reference Conditions

relative humidity. Fuel consumption dat with diesel fuel with specific gravity of $0.85\ \mathrm{and}$ conforming to BS 2869: 1998, Class A2



Dimension and Weight			
Dimension	Open	Silent	
Length (L)	3055mm	4712mm	
Width (W)	1295 mm	1600mm	
Height (H)	2110mm	2465mm	
Net Weight	3718KG	REQ	
Fuel Tank (L)	680 L	REQ	



■ Engine Specification: TAD1641GE

General data	
No. of cylinders	6
Cylinder arrangement	In-line
Cycle	4 stroke
Displacement	16 L
Bore	144 mm
Stroke	165 mm
Compression ratio	16.5:1
Dry weight-engine only	NA
Dry weight-include cooling system	NA
Wet weight-engine only	1550 kg
Wet weight-Genpac	2020 kg

Inlet / Exhaust Data	
Max. intake restriction	5 kPA
Heat rejection to exhaust	
- standby power	356kW
- prime power	326 kW
Exhaust gas temp after turbine at	
- standby power	455℃
- prime power	443 °C
Max. back pressure in exhaust line	10 kPA
Exhaust gas flow at:	
- standby power	92m 3 /min
- prime power	85 m 3 /min

Cooling system		
Heat rejection radiation from engine at		
- standby power	20 kW	
- prime power	18kW	
Heat engine rejection to coolant at		
- standby power	184 kW	
- prime power	170 kW	
Fan power consumption	11 kW	
Fan drive ratio	1.04:1	
Coolant capacity-engine	33 L	
Coolant capacity-std radiator	60 L	
Coolant pump(drive/ratio)	1.85:1	
Coolant flow with standard system	6.4 L/S	
Minimum coolant flow	6.4 L/S	
Max. out circuit restriction	40 kPA	
Thermostat-start to open	86 °C	
Thermostat-fully open	96°C	
Max. static pressure head	100 kPA	
Min. static pressure head	70 kPA	
Standard pressure cap setting	75 kPA	
Max. top tank temp	103 °C	

Fuel system	
System supply flow	170 L/H
Fuel supply line max. restriction	10 kPA
Fuel supply line max pressure	O kPA
System return flow	25L/H
Fuel return line max restriction	20 kPA
Max. allowable inlet fuel temp	60 °C

Lubrication system	
Oil consumption	
- standby power	O.1 L/H
- prime power	0.1 L/H
Oil system capacity-include filters	48 L
Oil sump capacity-max.	42 L
Oil sump capacity- min.	32 L
Oil change intervals	600 H
Oil pressure at rated speed	300-650 kPA
Lubrication oil temp in oil sump	130℃
Oil filter micron size	0.04mm

Electrical system	
Voltage	24 V
Alternator make/output	80 Amp
Starter motor	7 kW

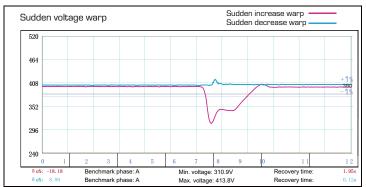


Alternator Specification

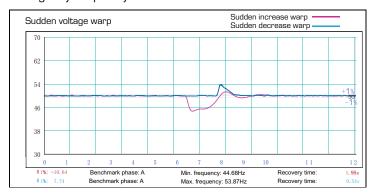
Alternator	
Number of phase	3
Power factor (Cos Phi)	0.8
Poles	4
Winding Connections (standar	rd) Star-serie
Terminals	12
Insulation type	H class
Winding Pitch	2/3
IP rating	IP23
Excitation system	Self-excited
Bearing	Single bearing
Coating	Vacuum impregnation
Voltage regulator	A.V.R
Couping	Flexible disc



Emergency voltage curve



Emergency frequency curve



Options

Engine	Alternator	Generator Sets	Fuel System
 Water Jacket Pre-heater Fuel heater 	 Winding Temp measuring Instrument Alternator Pre-heater PMG Anti-damp and anti-corrosion treatment Anti-condensation heater Winding and bearing RTD 	 Tools with the machine Extended range fuel tank Bunded fuel tank 	 Low fuel level alarm Automatic fuel feeding system Fuel T-valves
Canopy	Lub oil system	Cooling System	Control Panel
Rental type CanopyTrailer	Oil Pre-heater Oil temp sensor	Front heat protection	 Remote control panel ATS Synchronizing controller Adjustable earth leakage relay



Control Panel

Configuration

- Emergency stop button
- Protection MCB
- Battery charger
- Integrated aviation plug
- ATS connection
- Digital control module

Features

- 3 phase generator set monitoring
- Support of engines equipped with electronic control unit.
- Comprehensive diagnostic message
- Automatic or manual start/stop of the gensets
- Push buttons for simple control, lamp test
- Graphic back-lit LCD display
- Parameters adjustable via keyboard or PC
- Mains measurements (50HZ/60HZ)
- Generator measurements (50HZ/60HZ)
- Comprehensive shutdown or warning on fault condition
- 3 phase Generator protections
 - Over-/under voltage
 - -Over-/under frequency
 - -Current/voltage asymmetry
 - -Over current/overload
- 3 phase AMF function
 - Over-/under frequency
 - Over-/under voltage
 - Voltage asymmetry
- Configurable analog inputs
- Battery voltage, engine speed (pick-up) measurement
- Configurable programmable binary inputs and outputs
- Warm-up and cooling functions
- Generator C.B. and Mains C.B. control with feedback and return timer
- RS232 interface
- Modem communication support
- Hours counter
- Sealed to Ip65
- Event log

Benefits

- Less wiring and components
- Integrated solution
- Less engineering and programming
- User friendly set-up and button layout
- Module can be configured to suit individual applications
- PC software for simplified configuration
- Wide range of communication capabilities

Operation conditions

- Operation temp: -20 $^{\circ}$ C to + 70 $^{\circ}$ C
- Storage temp: -30 °C to + 80 °C
- Operating humidity: 95% w/o condensation
- Vibration: 5-25Hz, ± 1.6 mm
 - 5-100Hz, a=4q
- Shocks: a= 500m/s²

Options

- Ethernet interface (Remote monitoring and control)
- GSM modem/wireless internet (Remote monitoring and control)
- RS232-RS485 Dual port interface
- Synchronizing control panel
- Distribution board with sockets kit and power busbar
- Battery trickle charge ammeter
- Earth leakage protection
- Earth fault protection
- Low fuel level alarm
- Low fuel level shutdown
- High fuel level alarm
- Fuel transfer system control
- Low coolant level shutdown
- High lube oil temp shutdown
- Overload via alarm switch on breaker
- Engine coolant heater controls
- Control panel heater
- Speed adjust switch
- Oil temp displayed on LCD screen
- Additional 8 inputs and outputs



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